

page. Display page scaler 14 is any combination of hardware and executable code configured to scale the selected page to fit the display.

[0019] Program storage system 16 is any system configured to store data or executable code. In one embodiment, program storage system 16 is a program storage device tangibly embodying a program, applet, or instructions executable by computer 2 for performing the method steps of the present invention executable by computer 2. Program storage system 16 may be any type of storage media such as magnetic, optical, or electronic storage media. Although depicted as integral to computer 2, program storage system 16 is alternatively embodied separate from computer 2 and accessible by computer 2.

[0020] Display 4 is any device or system configured to display the display job. In one embodiment, display 4 includes a display screen 20. Display screen 20 is any combination of hardware and executable code configured to exhibit the selected page and each chosen sequence of scaled pages. In an alternative embodiment, display 4 includes a printer 22. Printer 22 is any combination of hardware and executable code configured to print the selected page and each chosen sequence of scaled pages onto print media.

[0021] Figure 2 is a flow chart representing steps of one embodiment of the present invention. Although the steps represented in Figure 2 are presented in a specific order, the present invention encompasses variations in the order of steps. Furthermore, additional steps may be executed between the steps illustrated in Figure 2 without departing from the scope of the present invention.

[0022] Pages of a multiple page display job are ordered 24. In one embodiment, arranger 6 orders 24 the display job into ordered pages. The pages are ordered 24 according to their location in a presentation or document. For example, in a linear document or presentation, the pages are ordered sequentially. In a document having multiple pages in each of two dimensions, the pages are ordered by row and column.

[0023] One of the multiple pages of the display job is selected 26 for display. In one embodiment, selector 8 selects 26 the page for display. The method of the present invention may be practiced individually on each page of the display

job.

**[0024]** At least one sequence of pages adjacent the selected page is chosen 28. In one embodiment, indicator 10 chooses 28 the sequence of pages. Each sequence of pages is one or more pages.

5 **[0025]** Each page in each chosen sequence of pages is scaled 30 to a size smaller than a size of the selected page. In one embodiment, sequence page scaler 12 scales 30 each page. The pages may be scaled to any size smaller than the selected pages but scaling the pages to a thumbnail size is convenient.

10 **[0026]** If necessary or desirable, the selected page is scaled 32. The selected page may be scaled to fit display 4 or to make room for the sequences. In one embodiment, display page scaler 14 scales 32 the selected page.

15 **[0027]** The selected page and each chosen sequence of scaled pages are displayed 34 together on display 4. In one embodiment, the selected page and each chosen sequence of scaled pages are displayed 4 together on display screen 20. In an alternative embodiment, the selected page and each chosen sequence of pages are displayed 4 together onto print media from printer 22.

20 **[0028]** Each page of each chosen sequence can be displayed at any location of display 4. In one embodiment, each page of each chosen sequence is displayed on the selected page according to its location relative to the selected page. For example, if the pages of the chosen sequence immediately precede the selected page, the pages are displayed in the left margin of the selected page. If the pages of the chosen sequence immediately follow the selected page, the pages are displayed in the right margin of the selected page.

25 **[0029]** The present invention is also useful where a spreadsheet encompasses multiple pages. For example, where a document is larger than can be displayed in a readable size on a single display, the chosen sequences may be placed at the upper, lower, left or right margins of display 4 to indicate the relative location of the chosen sequences to the selected page.

30 **[0030]** In another example, each chosen sequence is displayed along the lower margin of the selected page. For example, if the pages of the chosen sequence immediately precede the selected page, the pages are displayed at the

lower left-hand corner of the selected page. Alternatively, if the pages of the chosen sequence immediately follow the selected page, the pages are displayed at the lower right-hand corner of the selected page. Locating the pages of the chosen sequences in the margins of the display leaves the majority of the selected page unobstructed.

[0031] Figure 3 illustrates examples of single page displays 36, 38, 40, and multiple page displays 42, 44, 46.

[0032] P1, P2, P3 represent three pages of a display job. X represents a non-existing page, such as before the first page or after the last page of a document.

[0033] Pages P1, P2, P3 are ordered 24 by arranging them in sequential order. Each page P1, P2, P3 is selected 26 in turn for display. In this example, two sequences 48, 50 of pages are chosen 28.

[0034] Sequence 48 is a sequence of two pages before the selected page. Sequence 50 is a sequence of one page after the selected page.

[0035] Sequences 48, 50 are scaled 30 to a size smaller than the selected page. If necessary, the selected page is scaled 32 to fit display 4. If the selected page was scaled, sequences 48, 50 are scaled 32 with the selected page. The selected page and the chosen sequences are displayed 34 together as shown in multiple page displays 42, 44, 46.

[0036] The foregoing description is only illustrative of the invention. Various alternatives and modifications can be devised by those skilled in the art without departing from the invention. Accordingly, the present invention embraces all such alternatives, modifications, and variances that fall within the scope of the appended claims.